

CLAIMS

We claim:

1. An ultra-violet lamp device for mounting an ultra-violet lamp to an air duct, comprising:

5 a power unit, said power unit having an electrical switch for operating the ultra-violet lamp and a socket for coupling the ultra-violet lamp to said electrical switch; and

 a mounting bracket having a front surface, a back surface, and a lever, said lever comprising a switch-engaging portion and a biasing portion wherein, when
10 said bracket is mounted to an air duct, said biasing portion of said lever biases the switch-engaging portion such that, when said power unit is mounted to said mounting bracket, said lever engages said switch.

2. The ultra-violet lamp device of claim 1 wherein said mounting bracket further comprises an aperture for mounting the ultra-violet lamp therethrough.

15 3. The ultra-violet lamp device of claim 1 wherein said lever is spring-loaded.

4. The ultra-violet lamp device of claim 1 wherein said mounting bracket further comprises a collar for coupling said power unit thereto.

5. The ultra-violet lamp device of claim 4 wherein said collar further comprises one or more lips for engaging said power unit.

20 6. The ultra-violet lamp device of claim 1 wherein said power unit further comprises a collar for coupling said mounting bracket thereto.

7. The ultra-violet lamp device of claim 6 wherein said collar further comprises one or more lips for engaging said mounting bracket.

8. The ultra-violet lamp device of claim 1 wherein said lever further comprises a coupling portion.

9. The ultra-violet lamp device of claim 1 wherein said mounting bracket assembly further comprises a sight hole.

5 10. The ultra-violet lamp device of claim 9 wherein said sight hole further comprises a lens.

11. The ultra-violet lamp device of claim 1 wherein said mounting bracket further comprises one or more stops for guiding the mounting of the power unit with respect to the mounting bracket.

10 12. The ultra-violet lamp device of claim 1 wherein said power unit further comprises a housing.

13. The ultra-violet lamp device of claim 1 wherein said power unit further comprises a ballast.

15 14. The ultra-violet lamp device of claim 1 wherein said power unit further comprises a switch channel.

15. The ultra-violet lamp device of claim 1 wherein said power unit further comprises one or more ridges for guiding the coupling of and limiting the rotation of the power unit with respect to the mounting bracket.

20 16. A method of operating an ultra-violet lamp within an air duct comprising the steps of:

 providing a power unit having an electrical switch for operating the ultra-violet lamp and a socket for coupling the ultra-violet lamp to said electrical switch;

providing a mounting bracket having a front surface, a back surface,
and a lever, said lever comprising a switch-engaging portion and a biasing portion
wherein, when said bracket is mounted to the air duct, said biasing portion of said
lever biases the switch-engaging portion such that, when said power unit is mounted
5 to said mounting bracket, said lever engages said switch;

removing a portion of the air duct for mounting the ultra-violet lamp
therethrough;

attaching said mounting bracket to the air duct such that said biasing
portion of said lever biases the switch-engaging portion such that, when said power
10 unit is mounted to said mounting bracket, said lever engages said switch;

mounting the ultra-violet lamp to said lamp mounting portion of said
power unit; and

mounting said power unit to said mounting bracket such that the ultra-
violet lamp extends into the interior of the air duct and said lever engages said
15 electrical switch.

17. The method of claim 16 wherein said mounting bracket further comprises
an aperture for mounting the ultra-violet lamp therethrough.

18. The method of claim 16 wherein said lever is a spring-loaded lever.

19. The method of claim 16 wherein said lever further comprises a coupling
20 portion.

20. The method of claim 16 wherein said power unit further comprises a
ballast.